

Date: Fri, 24 Sep 93 14:01:20 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1135  
To: Info-Hams

Info-Hams Digest                      Fri, 24 Sep 93                      Volume 93 : Issue 1135

Today's Topics:

    \* SpaceNews 27-Sep-93 \*  
    Emergency: cellular vs ham (was Re: Yag  
        HIGH-END PADDLES  
    Icom 24AT weak xmit audio  
        ORBS\$258.2liners  
        ORBS\$268.AMSAT  
    Radio Shack 900 Mhz. phones?  
        White Noise Generator

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 24 Sep 93 15:46:52 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: \* SpaceNews 27-Sep-93 \*  
To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0927  
\* SpaceNews 27-Sep-93 \*

BID: \$SPC0927

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SpaceNews  
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MONDAY SEPTEMBER 27, 1993

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

\* ARSENE FAILURE \*

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The ARSENE satellite is no longer responding to telecommands sent by the FF1STA command station at ENSAE School in Toulouse. Numerous commands have been sent to try to reactivate the satellite without success. Since September 9th at around 00:00 UTC when ARSENE signal was last heard in mode S, controllers have not received any more telemetry from the satellite. The transmission stopped at the moment ARSENE was moving out of a one hour eclipse period. Contrasting with what was earlier thought, the SHF power output stage temperature never reached more than 42 degrees Celsius before entering into the Earth shadow. The temperature dropped by ten degrees when in the eclipse part of the orbit. The FF1STA command station was able to observe telemetry data indicating that the automatic system for handling eclipse power conditions was working fine. All collected telemetry data before the failure is carefully being investigated by ARSENE experts. There will be an attempt made to recover ARSENE using the FC1ELL EME station in Argenteuil near Paris, with an 8m dish and high power UHF transmitter.

[Info via Bernard, F6BVP]

\* OSCAR-11 FAILURE \*

=====

Controllers at the UoSAT Control Centre at the University of Surrey are requesting the help of the amateur radio community around the world in collecting information and data from UoSAT-OSCAR-11. The Forth Diary Operating system aboard UO-11 has crashed. This has rendered the spacecraft in a non-nominal operating state. The collection of information and data related to the operational condition of the spacecraft will be essential in helping the controllers to understand the spacecraft's current condition. Therefore the UoSAT command team is asking radio amateurs around the world to monitor the spacecraft and relay any reception reports and or telemetry data collected from the spacecraft to them via G0SYX @ UO-22, G0SYX @ KO-23 or via the Internet address: D.Loughmiller@ee.surrey.ac.uk.

UoSAT-OSCAR-11 operates on a 2M frequency of 145.826 MHz and on a 70 cm frequency of 435.027 MHz. Controllers are most interested in which beacon is active at the time of any given observation and whether the signal contains data or not. Any telemetry data collected would be of particular interest to the controllers as well. Any observations provided by the

amateur community will be most appreciated. UoSAT controllers will issue subsequent bulletins about the status of the UoSAT-OSCAR-11 spacecraft as the situation develops.

[Info via K05I/G0SYX and the AMSAT News Service]

★ VE2ONT MOONBOUNCE TEST ★

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All appears ready for the upcoming EME tests by The Toronto VHF Society, using the callsign VE3ONT. We will use the 46-m (150') diameter radio telescope at Algonquin Provincial Park (grid FN05xw) during this year's A.R.R.L. International EME Competition.

VE3ONT will be active the full weekend of each contest period, October 9/10 and November 6/7, 1993. Below is the schedule of operations:

Date	VE3ONT TX Freq.	Listening range	Approx. times (UTC)
Oct 9	432.050 MHz	432.050 - 432.060 MHz	0445-1830
Oct 10	144.029 MHz	144.025 - 144.030 MHz	0550-1900
Nov 6	432.050 MHz	432.050 - 432.060 MHz	0340 1700
Nov 7	1296.050 MHz	1296.050 - 1296.060 MHz	0450-1730

VE3ONT will operate "split" and we ask that stations avoid calling us on our transmit frequency. VE3ONT will transmit and receive with left-hand circular-polarization (LHCP) off the dish on all bands. This means that after reflection from the Moon, signals will be right-hand circular polarized (RHCP). This will permit us to work stations with vertical, horizontal, or RHCP polarization. VE3ONT will transmit at the legal power limit on 144 and 432 MHz and 100 watts on 1296. Power amplifiers and receiving preamps are located at the dish feed.

As users of a non-amateur antenna, we will not be in competition with other stations. Our intention is to provide an initial EME contact for as many stations as possible. Consequently, we strongly discourage duplicate or "insurance" contacts. Operation will be primarily on CW, although SSB might be employed depending on signal strength and number of stations calling.

All operation will be "random" format, meaning that VE3ONT will accept no skeds. If conditions are poor, we will use a 30-second sequence in which VE3ONT transmits the first 30 seconds and listens during the second 30 seconds of each minute. Note that this is NOT the usual sequence for EME skeds.

VE3ONT will maintain HF liaison on 14.345 MHz during daylight hours and on 3.818 MHz at night.

We anticipate being able to work OSCAR-class stations with 100 watts of output power on 144 and 432 MHz; 25 watts should be sufficient on 1296. A photograph of the dish is shown in the "Up Front in QST" section of the October issue; see also "The World Above 50 MHz" in the same issue. Technical information concerning the dish and VE3ONT's operation was presented by W9IP and VE3ASO at the Central States VHF Conference and the Eastern VHF/UHF Conference.

For clarification, contact Dennis Mungham VE3ASO (613) 998-7330/989-2339 or Michael Owen W9IP (315) 379-0161/379-5975. QSL to VE3ONT (Callbook address).

[Info via Michael Owen, W9IP]

\* THANKS! \*

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Thanks to all those who sent messages of appreciation regarding SpaceNews, especially:

K6CGW AL7KD KB8KBI Roy Stai Paul Milsom

\* FEEDBACK/INPUT WELCOMED \*

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Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

FAX : 1-908-747-7107

PACKET : KD2BD @ N2KZH.NJ.USA.NA

INTERNET : kd2bd@ka2qhd.ocpt.ccur.com -or- kd2bd@amsat.org

MAIL : John A. Magliacane, KD2BD  
Department of Engineering and Technology  
Advanced Technology Center  
Brookdale Community College  
Lincroft, New Jersey 07738  
U.S.A.

<<= SpaceNews: The first amateur newsletter read in space! -=>>

/EX

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John A. Magliacane, KD2BD \* /\ \ \* Voice : 1-908-224-2948

Advanced Technology Center |/\ \ /\ | Packet : KD2BD @ N2KZH.NJ.USA.NA

Brookdale Community College |\\|\\|\\| Internet: kd2bd@ka2qhd.ocpt.ccur.com  
Lincroft, NJ 07738 \* \\|\\| \* Morse : -.- -.. ..--- -... -..

-----  
Date: 24 Sep 93 17:23:43 GMT  
From: ogicse!cadreor!fripp!usenet@network.ucsd.edu  
Subject: Emergency: cellular vs ham (was Re: Yag  
To: info-hams@ucsd.edu

>> The cheating was rampant.  
>> They were caught with smoking guns on a couple of occasions but no one  
>> including the FCC seemed to care. I participated on one of the  
>> investigative ad-hoc committees. The guy was caught red-handed with  
>> his cheat sheets. I wrote a letter to the FCC separate from the committee's  
>> report. Nothing. Not a word.

This is fairly common now. The word is out that you don't have to study for the tests...

Dan

-----  
Date: 24 Sep 93 14:04:22 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: HIGH-END PADDLES  
To: info-hams@ucsd.edu

RARLY AM I MOVED TO THE POINT OF TAKING PEN IN HAND; BUT WA4OSR'S RESPONSE TO THE HIGH-END PADDLE DISCUSSION BEGS FOR A CHALLENGE. SIMPLY PUT : MR. MICHELL-LETS DO AN OLD VERSUS NEW.

THE RULES:

1. CONTEXT= 3 EA. 100 CHARACTER TEXT STRINGS.
2. PACKET VS. CW
3. NO MORE THAN 3 RELAY POINTS
4. SHORTEST DELIVERY TIME WINS.
5. DATA COURSE IS THE CIRCUMNAVIGATION OF THE GLOBE

LETS GO HOTSHOT - PUT OLD ROTUND 30'S TECHNOLOGY IN ITS PLACE....DE W7MAP  
AS USUAL THE OPINIONS ARE MINE .

-----  
Date: 24 Sep 93 12:57:36 GMT  
From: vtserf.cc.vt.edu!usenet@uunet.uu.net  
Subject: Icom 24AT weak xmit audio  
To: info-hams@ucsd.edu

In article <CDrowI.K6v@cbnewsm.cb.att.com> hellman@cbnewsm.cb.att.com  
(eric.s.hellman) writes:

> I noticed a friend using his Icom 24AT, He had to touch his lips  
> to the case to get audio out! I think I remember seeing this recently  
> discussed. Anyone recall the fix? (I checked to see if there were  
> slots in the case and there seemed to be speaker and mic slots)  
> tnx Shel WA2UBK dara@physics.att.com

Well, I got used to talking loudly to compensate for this problem.  
I then bought one of the Icom "heavy duty" mics for this HT and found  
that I would get reports of over deviation if I held it close to my  
mouth and spoke loudly. A friend had the same experience. I think  
their cheaper speaker-mic is somewhere in between the internal mic  
and the external heavy duty mic. The point here is if you plan to  
use an external mic, adjusting the deviation to soup up the internal  
mic may cause excessive over deviation when using a good external  
mic since both internal and external microphones are controlled by  
the same deviation adjustment.

Benjy AC4X0

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Date: 24 Sep 93 16:47:30 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: ORBS\$258.2liners  
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-268.N  
2Line Orbital Elements 268.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT  
FROM N3FKV HEWITT, TX September 25, 1993  
BID: \$ORBS-268.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ  
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJ KKKKKZ  
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN  
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

A0-10

1 14129U 83 58 B 93261.37176135 -.000000099 00000-0 99999-4 0 354  
2 14129 27.1985 5.5050 6025636 115.1006 317.3712 2.05882714 77182  
U0-11

1 14781U 84 21 B 93266.58557116 .00000157 00000-0 30660-4 0 4403  
 2 14781 97.8054 288.6093 0013031 44.3925 315.8324 14.69056049511161  
 RS-10/11  
 1 18129U 87 54 A 93265.78298818 .00000088 00000-0 89554-4 0 6506  
 2 18129 82.9282 166.4889 0013289 49.2382 310.9897 13.72323480313239  
 AO-13  
 1 19216U 88 51 B 93263.37003204 .00000121 00000-0 46210-3 0 6439  
 2 19216 57.8512 293.7059 7210437 324.5886 4.2495 2.09718161 40355  
 FO-20  
 1 20480U 90 13 C 93262.12161713 -.00000010 00000-0 65198-5 0 4565  
 2 20480 99.0281 100.4732 0540198 233.7673 121.2342 12.83221116169367  
 AO-21  
 1 21087U 91 6 A 93266.75660614 .00000084 00000-0 82656-4 0 8559  
 2 21087 82.9460 339.8817 0036869 106.0838 254.4375 13.74525023132981  
 RS-12/13  
 1 21089U 91 7 A 93265.77234864 .00000016 00000-0 11037-4 0 4249  
 2 21089 82.9210 209.7390 0029281 130.1855 230.1875 13.74026602131922  
 ARSENE  
 1 22654U 93 31 B 93241.80475365 -.00000049 00000-0 99999-4 0 211  
 2 22654 1.3018 119.8566 2933615 152.1382 232.4293 1.42202460 1626  
 UO-14  
 1 20437U 90 5 B 93265.76629184 .00000042 00000-0 24146-4 0 7735  
 2 20437 98.6094 348.9428 0010156 256.6456 103.3594 14.29792387191377  
 AO-16  
 1 20439U 90 5 D 93266.18221471 .00000034 00000-0 20940-4 0 5783  
 2 20439 98.6174 350.3244 0010459 256.7891 103.2140 14.29850520191449  
 DO-17  
 1 20440U 90 5 E 93266.23231091 .00000039 00000-0 22905-4 0 5801  
 2 20440 98.6178 350.6125 0010553 255.7561 104.2451 14.29987128191467  
 WO-18  
 1 20441U 90 5 F 93266.20321397 .00000034 00000-0 20980-4 0 5826  
 2 20441 98.6176 350.6033 0011285 257.3247 102.6691 14.29965946191468  
 LO-19  
 1 20442U 90 5 G 93266.75863415 .00000041 00000-0 23670-4 0 5792  
 2 20442 98.6182 351.3494 0011457 254.5061 105.4856 14.30057190191558  
 UO-22  
 1 21575U 91 50 B 93265.11055625 .00000053 00000-0 24709-4 0 2778  
 2 21575 98.4659 339.6293 0008256 16.3205 343.8248 14.36851117114584  
 KO-23  
 1 22077U 92 52 B 93263.67655469 .00000000 00000-0 99999-4 0 1156  
 2 22077 66.0792 124.2611 0001255 353.3278 6.7724 12.86279630 52121  
 NOAA-9  
 1 15427U 84123 A 93267.03377154 .00000085 00000-0 55517-4 0 4641  
 2 15427 99.0906 308.8762 0014261 250.2565 109.7076 14.13547200452746  
 NOAA-10  
 1 16969U 86 73 A 93267.01531806 .00000035 00000-0 23276-4 0 3071  
 2 16969 98.5164 279.0966 0014086 29.6511 330.5470 14.24832292364707  
 NOAA-11

1 19531U 88 89 A 93266.81506369 .00000144 00000-0 87997-4 0 2172  
 2 19531 99.1431 244.6172 0011659 157.7475 202.4215 14.12917911257604  
 MET-3/3  
 1 20305U 89 86 A 93266.57019314 .00000043 00000-0 99999-4 0 7373  
 2 20305 82.5486 95.4701 0014877 232.6549 127.3218 13.16023368188047  
 FY-1/2  
 1 20788U 90 81 A 93266.93605468 .00000118 00000-0 89643-4 0 6317  
 2 20788 98.8542 290.3499 0016188 37.5863 322.6431 14.01296183156418  
 MET-2/20  
 1 20826U 90 86 A 93266.38605979 .00000030 00000-0 21942-4 0 5849  
 2 20826 82.5250 358.2521 0014777 74.1263 286.1527 13.83557857150860  
 MET-3/4  
 1 21232U 91 30 A 93266.32926582 .00000043 00000-0 99999-4 0 4043  
 2 21232 82.5455 358.2589 0013970 127.8840 232.3548 13.16455849116248  
 NOAA-12  
 1 21263U 91 32 A 93266.65576590 .00000132 00000-0 68104-4 0 6725  
 2 21263 98.6502 294.9367 0012332 292.0905 67.8960 14.22312492122645  
 MET-3/5  
 1 21655U 91 56 A 93265.30307878 .00000043 00000-0 99999-4 0 4600  
 2 21655 82.5525 305.9270 0013492 140.9697 219.2402 13.16823738101205  
 MET-2/21  
 1 22782U 93 55 A 93265.46522455 .00000015 00000-0 83089-5 0 159  
 2 22782 82.5455 58.5871 0020982 256.6669 103.2151 13.82985519 3082  
 MIR  
 1 16609U 86 17 A 93266.82873996 .00007872 00000-0 99031-4 0 3121  
 2 16609 51.6187 83.8687 0004427 121.5263 238.6130 15.59836341434525  
 HUBBLE  
 1 20580U 90 37 B 93266.83838231 .00000637 00000-0 52868-4 0 1852  
 2 20580 28.4696 148.4226 0004359 3.4825 356.5832 14.92836713186272  
 GRO  
 1 21225U 91 27 B 93264.43702394 .00025569 00000-0 14973-3 0 9957  
 2 21225 28.4646 313.6871 0006116 328.7533 31.2722 15.76703769 15305  
 UARS  
 1 21701U 91 63 B 93265.74981556 .00003040 00000-0 28906-3 0 2561  
 2 21701 56.9838 150.5436 0004504 78.1255 282.0293 14.96107390110904  
 /EX

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Date: 24 Sep 93 16:45:47 GMT  
 From: news-mail-gateway@ucsd.edu  
 Subject: ORBS\$268.AMSAT  
 To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-268.0  
 Orbital Elements 268.OSCAR



HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES  
FROM N3FKV HEWITT, TX September 25, 1993  
BID: \$ORBS-268.0  
TO ALL RADIO AMATEURS BT

Satellite: A0-10  
Catalog number: 14129  
Epoch time: 93261.37176135  
Element set: 35  
Inclination: 27.1985 deg  
RA of node: 5.5050 deg  
Eccentricity: 0.6025636  
Arg of perigee: 115.1006 deg  
Mean anomaly: 317.3712 deg  
Mean motion: 2.05882714 rev/day  
Decay rate:  $-9.9\text{e-}07$  rev/day<sup>2</sup>  
Epoch rev: 7718  
Checksum: 283

Satellite: U0-11  
Catalog number: 14781  
Epoch time: 93266.58557116  
Element set: 440  
Inclination: 97.8054 deg  
RA of node: 288.6093 deg  
Eccentricity: 0.0013031  
Arg of perigee: 44.3925 deg  
Mean anomaly: 315.8324 deg  
Mean motion: 14.69056049 rev/day  
Decay rate:  $1.57\text{e-}06$  rev/day<sup>2</sup>  
Epoch rev: 51116  
Checksum: 306

Satellite: RS-10/11  
Catalog number: 18129  
Epoch time: 93265.78298818  
Element set: 650  
Inclination: 82.9282 deg  
RA of node: 166.4889 deg  
Eccentricity: 0.0013289  
Arg of perigee: 49.2382 deg  
Mean anomaly: 310.9897 deg  
Mean motion: 13.72323480 rev/day  
Decay rate:  $8.8\text{e-}07$  rev/day<sup>2</sup>  
Epoch rev: 31323  
Checksum: 344

Satellite: A0-13

Catalog number: 19216  
Epoch time: 93263.37003204  
Element set: 643  
Inclination: 57.8512 deg  
RA of node: 293.7059 deg  
Eccentricity: 0.7210437  
Arg of perigee: 324.5886 deg  
Mean anomaly: 4.2495 deg  
Mean motion: 2.09718161 rev/day  
Decay rate: 1.21e-06 rev/day^2  
Epoch rev: 4035  
Checksum: 286

Satellite: FO-20  
Catalog number: 20480  
Epoch time: 93262.12161713  
Element set: 456  
Inclination: 99.0281 deg  
RA of node: 100.4732 deg  
Eccentricity: 0.0540198  
Arg of perigee: 233.7673 deg  
Mean anomaly: 121.2342 deg  
Mean motion: 12.83221116 rev/day  
Decay rate: -1.0e-07 rev/day^2  
Epoch rev: 16936  
Checksum: 259

Satellite: A0-21  
Catalog number: 21087  
Epoch time: 93266.75660614  
Element set: 855  
Inclination: 82.9460 deg  
RA of node: 339.8817 deg  
Eccentricity: 0.0036869  
Arg of perigee: 106.0838 deg  
Mean anomaly: 254.4375 deg  
Mean motion: 13.74525023 rev/day  
Decay rate: 8.4e-07 rev/day^2  
Epoch rev: 13298  
Checksum: 334

Satellite: RS-12/13  
Catalog number: 21089  
Epoch time: 93265.77234864  
Element set: 424  
Inclination: 82.9210 deg  
RA of node: 209.7390 deg  
Eccentricity: 0.0029281

Arg of perigee: 130.1855 deg  
Mean anomaly: 230.1875 deg  
Mean motion: 13.74026602 rev/day  
Decay rate: 1.6e-07 rev/day^2  
Epoch rev: 13192  
Checksum: 291

Satellite: ARSENE  
Catalog number: 22654  
Epoch time: 93241.80475365  
Element set: 21  
Inclination: 1.3018 deg  
RA of node: 119.8566 deg  
Eccentricity: 0.2933615  
Arg of perigee: 152.1382 deg  
Mean anomaly: 232.4293 deg  
Mean motion: 1.42202460 rev/day  
Decay rate: -4.9e-07 rev/day^2  
Epoch rev: 162  
Checksum: 258

/EX

SB KEPS @ AMSAT \$ORBS-268.D  
Orbital Elements 268.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS  
FROM N3FKV HEWITT, TX September 25, 1993  
BID: \$ORBS-268.D  
TO ALL RADIO AMATEURS BT

Satellite: U0-14  
Catalog number: 20437  
Epoch time: 93265.76629184  
Element set: 773  
Inclination: 98.6094 deg  
RA of node: 348.9428 deg  
Eccentricity: 0.0010156  
Arg of perigee: 256.6456 deg  
Mean anomaly: 103.3594 deg  
Mean motion: 14.29792387 rev/day  
Decay rate: 4.2e-07 rev/day^2  
Epoch rev: 19137  
Checksum: 342

Satellite: A0-16  
Catalog number: 20439  
Epoch time: 93266.18221471  
Element set: 578

Inclination: 98.6174 deg  
RA of node: 350.3244 deg  
Eccentricity: 0.0010459  
Arg of perigee: 256.7891 deg  
Mean anomaly: 103.2140 deg  
Mean motion: 14.29850520 rev/day  
Decay rate: 3.4e-07 rev/day^2  
Epoch rev: 19144  
Checksum: 294

Satellite: D0-17

Catalog number: 20440  
Epoch time: 93266.23231091  
Element set: 580  
Inclination: 98.6178 deg  
RA of node: 350.6125 deg  
Eccentricity: 0.0010553  
Arg of perigee: 255.7561 deg  
Mean anomaly: 104.2451 deg  
Mean motion: 14.29987128 rev/day  
Decay rate: 3.9e-07 rev/day^2  
Epoch rev: 19146  
Checksum: 296

Satellite: W0-18

Catalog number: 20441  
Epoch time: 93266.20321397  
Element set: 582  
Inclination: 98.6176 deg  
RA of node: 350.6033 deg  
Eccentricity: 0.0011285  
Arg of perigee: 257.3247 deg  
Mean anomaly: 102.6691 deg  
Mean motion: 14.29965946 rev/day  
Decay rate: 3.4e-07 rev/day^2  
Epoch rev: 19146  
Checksum: 311

Satellite: L0-19

Catalog number: 20442  
Epoch time: 93266.75863415  
Element set: 579  
Inclination: 98.6182 deg  
RA of node: 351.3494 deg  
Eccentricity: 0.0011457  
Arg of perigee: 254.5061 deg  
Mean anomaly: 105.4856 deg  
Mean motion: 14.30057190 rev/day

Decay rate: 4.1e-07 rev/day^2  
Epoch rev: 19155  
Checksum: 308

Satellite: UO-22

Catalog number: 21575  
Epoch time: 93265.11055625  
Element set: 277  
Inclination: 98.4659 deg  
RA of node: 339.6293 deg  
Eccentricity: 0.0008256  
Arg of perigee: 16.3205 deg  
Mean anomaly: 343.8248 deg  
Mean motion: 14.36851117 rev/day  
Decay rate: 5.3e-07 rev/day^2  
Epoch rev: 11458  
Checksum: 311

Satellite: K0-23

Catalog number: 22077  
Epoch time: 93263.67655469  
Element set: 115  
Inclination: 66.0792 deg  
RA of node: 124.2611 deg  
Eccentricity: 0.0001255  
Arg of perigee: 353.3278 deg  
Mean anomaly: 6.7724 deg  
Mean motion: 12.86279630 rev/day  
Decay rate: .00000000 rev/day^2  
Epoch rev: 5212  
Checksum: 275

/EX

SB KEPS @ AMSAT \$ORBS-268.W  
Orbital Elements 268.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES  
FROM N3FKV HEWITT, TX September 25, 1993  
BID: \$ORBS-268.W  
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9

Catalog number: 15427  
Epoch time: 93267.03377154  
Element set: 464  
Inclination: 99.0906 deg  
RA of node: 308.8762 deg  
Eccentricity: 0.0014261

Arg of perigee: 250.2565 deg  
Mean anomaly: 109.7076 deg  
Mean motion: 14.13547200 rev/day  
Decay rate: 8.5e-07 rev/day^2  
Epoch rev: 45274  
Checksum: 308

Satellite: NOAA-10  
Catalog number: 16969  
Epoch time: 93267.01531806  
Element set: 307  
Inclination: 98.5164 deg  
RA of node: 279.0966 deg  
Eccentricity: 0.0014086  
Arg of perigee: 29.6511 deg  
Mean anomaly: 330.5470 deg  
Mean motion: 14.24832292 rev/day  
Decay rate: 3.5e-07 rev/day^2  
Epoch rev: 36470  
Checksum: 306

Satellite: NOAA-11  
Catalog number: 19531  
Epoch time: 93266.81506369  
Element set: 217  
Inclination: 99.1431 deg  
RA of node: 244.6172 deg  
Eccentricity: 0.0011659  
Arg of perigee: 157.7475 deg  
Mean anomaly: 202.4215 deg  
Mean motion: 14.12917911 rev/day  
Decay rate: 1.44e-06 rev/day^2  
Epoch rev: 25760  
Checksum: 297

Satellite: MET-3/3  
Catalog number: 20305  
Epoch time: 93266.57019314  
Element set: 737  
Inclination: 82.5486 deg  
RA of node: 95.4701 deg  
Eccentricity: 0.0014877  
Arg of perigee: 232.6549 deg  
Mean anomaly: 127.3218 deg  
Mean motion: 13.16023368 rev/day  
Decay rate: 4.3e-07 rev/day^2  
Epoch rev: 18804  
Checksum: 302

Satellite: FY-1/2  
Catalog number: 20788  
Epoch time: 93266.93605468  
Element set: 631  
Inclination: 98.8542 deg  
RA of node: 290.3499 deg  
Eccentricity: 0.0016188  
Arg of perigee: 37.5863 deg  
Mean anomaly: 322.6431 deg  
Mean motion: 14.01296183 rev/day  
Decay rate: 1.18e-06 rev/day^2  
Epoch rev: 15641  
Checksum: 326

Satellite: MET-2/20  
Catalog number: 20826  
Epoch time: 93266.38605979  
Element set: 584  
Inclination: 82.5250 deg  
RA of node: 358.2521 deg  
Eccentricity: 0.0014777  
Arg of perigee: 74.1263 deg  
Mean anomaly: 286.1527 deg  
Mean motion: 13.83557857 rev/day  
Decay rate: 3.0e-07 rev/day^2  
Epoch rev: 15086  
Checksum: 326

Satellite: MET-3/4  
Catalog number: 21232  
Epoch time: 93266.32926582  
Element set: 404  
Inclination: 82.5455 deg  
RA of node: 358.2589 deg  
Eccentricity: 0.0013970  
Arg of perigee: 127.8840 deg  
Mean anomaly: 232.3548 deg  
Mean motion: 13.16455849 rev/day  
Decay rate: 4.3e-07 rev/day^2  
Epoch rev: 11624  
Checksum: 312

Satellite: NOAA-12  
Catalog number: 21263  
Epoch time: 93266.65576590  
Element set: 672  
Inclination: 98.6502 deg

RA of node: 294.9367 deg  
Eccentricity: 0.0012332  
Arg of perigee: 292.0905 deg  
Mean anomaly: 67.8960 deg  
Mean motion: 14.22312492 rev/day  
Decay rate: 1.32e-06 rev/day^2  
Epoch rev: 12264  
Checksum: 306

Satellite: MET-3/5  
Catalog number: 21655  
Epoch time: 93265.30307878  
Element set: 460  
Inclination: 82.5525 deg  
RA of node: 305.9270 deg  
Eccentricity: 0.0013492  
Arg of perigee: 140.9697 deg  
Mean anomaly: 219.2402 deg  
Mean motion: 13.16823738 rev/day  
Decay rate: 4.3e-07 rev/day^2  
Epoch rev: 10120  
Checksum: 290

Satellite: MET-2/21  
Catalog number: 22782  
Epoch time: 93265.46522455  
Element set: 15  
Inclination: 82.5455 deg  
RA of node: 58.5871 deg  
Eccentricity: 0.0020982  
Arg of perigee: 256.6669 deg  
Mean anomaly: 103.2151 deg  
Mean motion: 13.82985519 rev/day  
Decay rate: 1.5e-07 rev/day^2  
Epoch rev: 308  
Checksum: 306

/EX

SB KEPS @ AMSAT \$ORBS-268.M  
Orbital Elements 268.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES  
FROM N3FKV HEWITT, TX September 25, 1993  
BID: \$ORBS-268.M  
TO ALL RADIO AMATEURS BT

Satellite: MIR  
Catalog number: 16609



Epoch time: 93266.82873996  
Element set: 312  
Inclination: 51.6187 deg  
RA of node: 83.8687 deg  
Eccentricity: 0.0004427  
Arg of perigee: 121.5263 deg  
Mean anomaly: 238.6130 deg  
Mean motion: 15.59836341 rev/day  
Decay rate: 7.872e-05 rev/day^2  
Epoch rev: 43452  
Checksum: 329

Satellite: HUBBLE

Catalog number: 20580  
Epoch time: 93266.83838231  
Element set: 185  
Inclination: 28.4696 deg  
RA of node: 148.4226 deg  
Eccentricity: 0.0004359  
Arg of perigee: 3.4825 deg  
Mean anomaly: 356.5832 deg  
Mean motion: 14.92836713 rev/day  
Decay rate: 6.37e-06 rev/day^2  
Epoch rev: 18627  
Checksum: 321

Satellite: GRO

Catalog number: 21225  
Epoch time: 93264.43702394  
Element set: 995  
Inclination: 28.4646 deg  
RA of node: 313.6871 deg  
Eccentricity: 0.0006116  
Arg of perigee: 328.7533 deg  
Mean anomaly: 31.2722 deg  
Mean motion: 15.76703769 rev/day  
Decay rate: 2.5569e-04 rev/day^2  
Epoch rev: 1530  
Checksum: 306

Satellite: UARS

Catalog number: 21701  
Epoch time: 93265.74981556  
Element set: 256  
Inclination: 56.9838 deg  
RA of node: 150.5436 deg  
Eccentricity: 0.0004504  
Arg of perigee: 78.1255 deg

Mean anomaly: 282.0293 deg  
Mean motion: 14.96107390 rev/day  
Decay rate: 3.040e-05 rev/day^2  
Epoch rev: 11090  
Checksum: 290

/EX

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Date: Thu, 23 Sep 1993 19:11:55 GMT  
From: swrinde!cs.utexas.edu!convex!horak@network.ucsd.edu  
Subject: Radio Shack 900 Mhz. phones?  
To: info-hams@ucsd.edu

In <1993Sep23.143625.12521@ultb.isc.rit.edu> bad1679@ultb.isc.rit.edu (B.A. Doehner) writes:

>I just got the new Radio Shack catalog and saw that they are now  
>carrying a 900 Mhz. cordless phone, but couldn't find much info about  
>it. Does anyone know how much power this new toy will be putting out?  
>What split it's using? What modulation technique it's using?

>73 Bernie nu1s/2

I read that flyer too and if I remember correctly, the phone uses NFM  
with voice inversion.

David

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Date: 23 Sep 93 17:52:33 GMT  
From: swrinde!elroy.jpl.nasa.gov!ncar!vexcel!copper!aspen.craycos.com!  
sog@network.ucsd.edu  
Subject: White Noise Generator  
To: info-hams@ucsd.edu

In article <1993Sep20.173126.5168@cyphyn.radnet.com> randy@cyphyn.radnet.com  
(Randy) writes:

>ejajko@hertz.elee.calpoly.edu (Edward Jajko) writes:

>: In article <1993Sep19.054248.5189@ssc.com> markz@ssc.com (Mark Zenier) writes:

>: >Nick Bryant (bryant@mpr.ca) wrote:

<Lots of stuff about white noise generators deleted>

Could you guys \*please\* remove rec.photo from the Newsgroups line before  
posting on this thread?

Thanks!

Steve

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End of Info-Hams Digest V93 #1135

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